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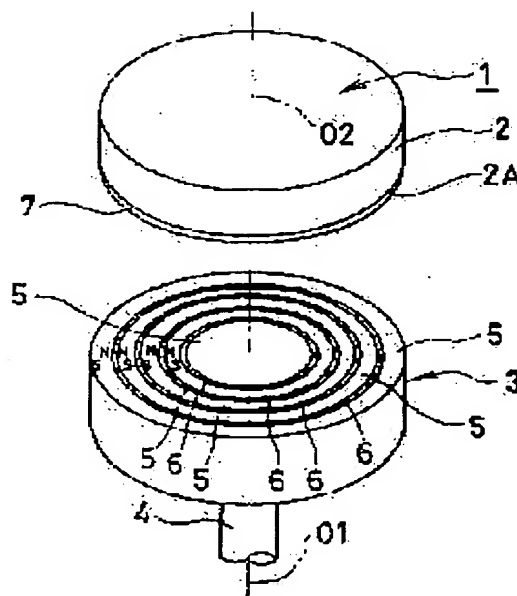
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(54) HIGH TEMPERATURE SUPERCONDUCTING MAGNETIC BEARING

(57)Abstract:

PROBLEM TO BE SOLVED: To efficiently restrain a superconducting phenomenon caused by an irregular rotating magnetic field of a rotating part.

SOLUTION: A high temperature superconducting magnetic bearing is constituted of a fixed part 1 having at least a high temperature superconducting body 2 and a cooling part to cool the high temperature superconducting body 2 and a rotating part 3 having at least a permanent magnet 5 opposed to the high temperature superconducting body 2 and a ferromagnetizing circuit to intensify a magnetic field generated by the permanent magnet 5, and a thin film body 7 to restrain a superconducting phenomenon caused by rotation of an irregular magnetic field is formed on a surface 2A of the high temperature superconducting body 2.



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